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Figure 1A

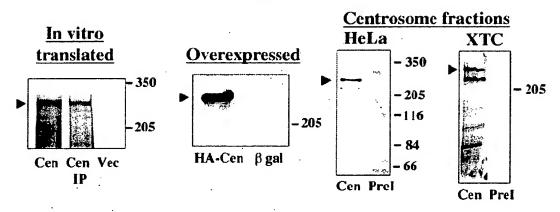


Figure 1B G2 GI proM M y tubulin centriolin . 1C Telo early 2C y tubulin centriolin 2C MB MB Telo late

BEST AVAILABLE COPY

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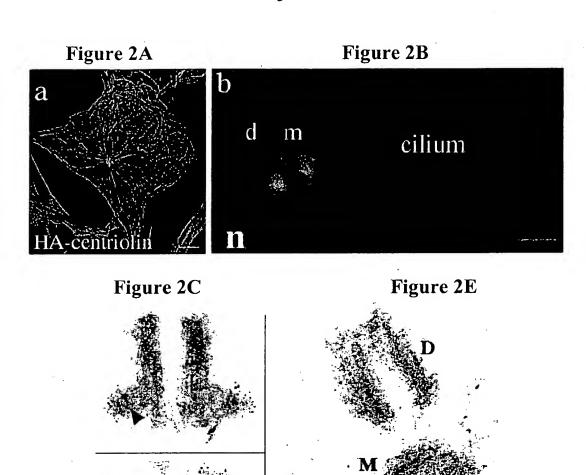


Figure 2D

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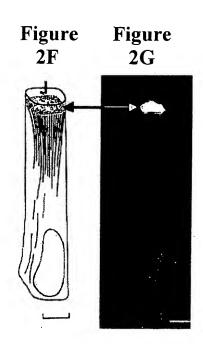


Figure 3A

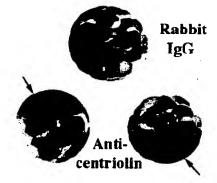
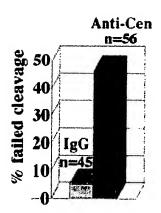


Figure 3B



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HA DNA

HA DNA

HA DNA

HA DNA

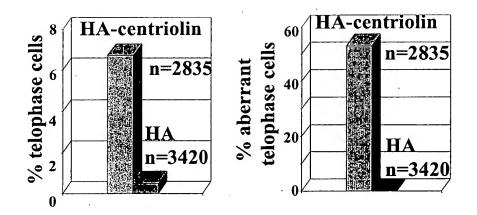


Figure 3E

Figure 3F

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Figure 3G

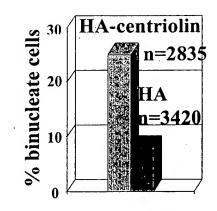


Figure 4A

RT-PCR:

siRNA:

lamin centriolin

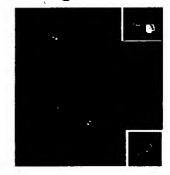
Centriolin



 α tubulin



Figure 4B



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Figure 4C

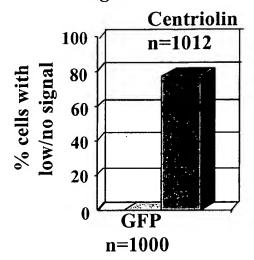
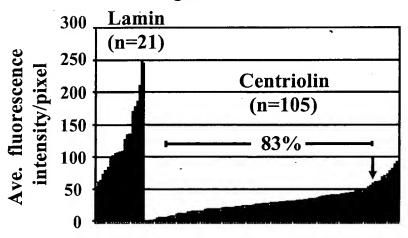


Figure 4D



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Figure 4E

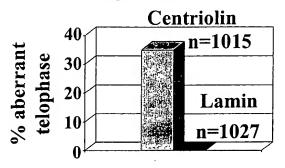


Figure 4F

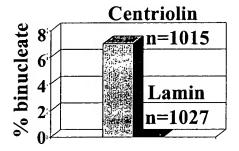
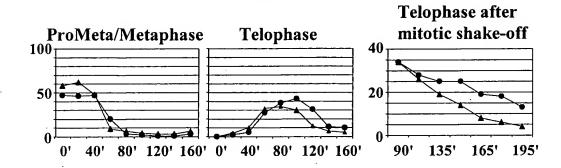


Figure 4G



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Figure 5A

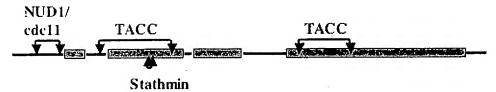
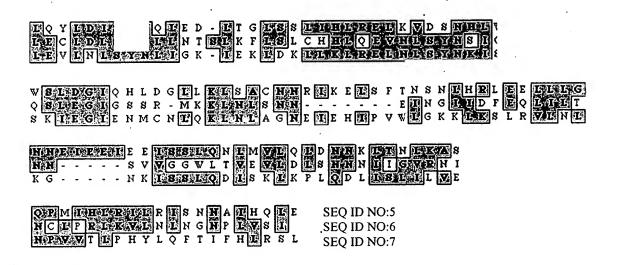
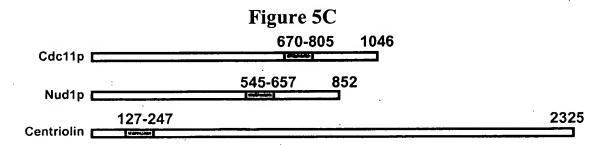


Figure 5B





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Figure 5D

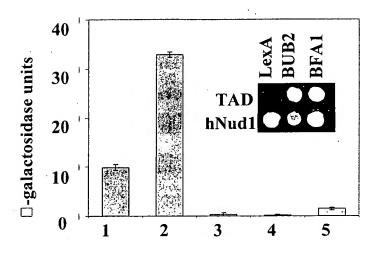
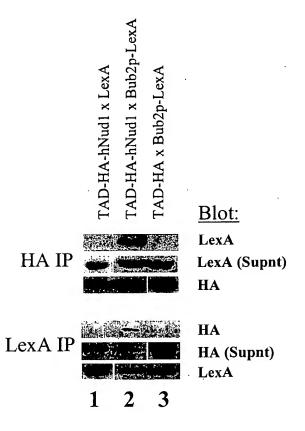
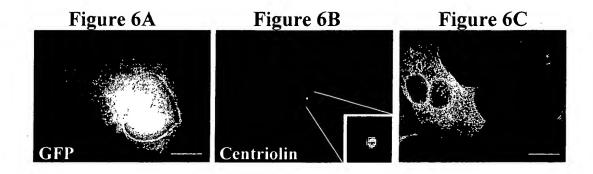
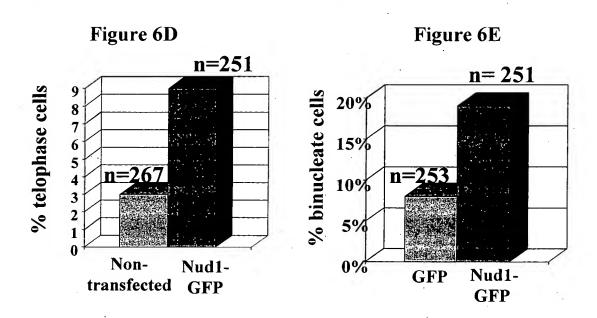


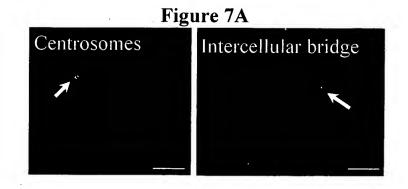
Figure 5E



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Figure 7B

siRNA:

RT-PCR:

Pent-B Lamin

Pcnt-B

10年持续人父亲于15年

 α tubulin



Figure 7C

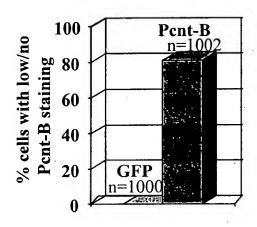
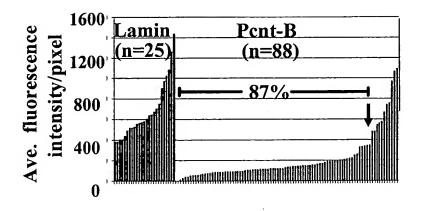


Figure 7D



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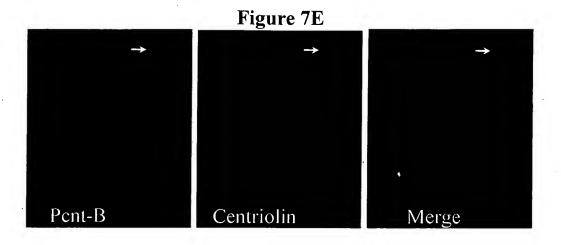


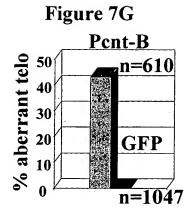
Figure 7F

Pent-B

n=610

GFP

n=1047



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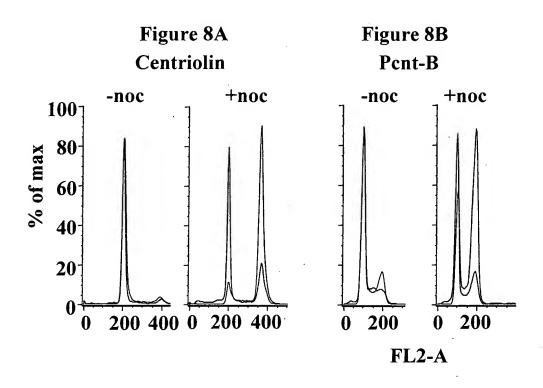


Figure 8C

Serum starved

+noc

80

80

60

40

20

0 200 400

FL2-A

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Figure 8D

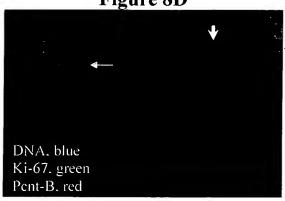
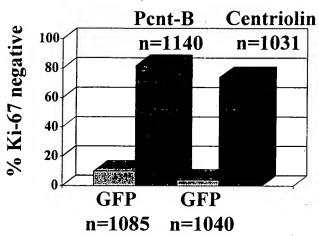


Figure 8E



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Figure 9

Without Nocodozole

	%G1	%S	%G2
Centriolin	74	13	4
Lamin (control)	62	23	7
	%G1	%S	%G2
Pent-B	70	13	14
GFP (control)	46	35	19

With Nocodozole

	%G1	%S	%G2
Centriolin	49.	13	23
Lamin (control)	19	19	46
1 1111111111111111111111111111111111111	%G1	%S	%G2
Pcnt-B	65	14	19
GFP (control)	24	15	60

Cell Cycle analysis of glow cytometry data (Fig. 8)

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Figure 10

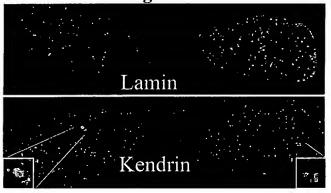
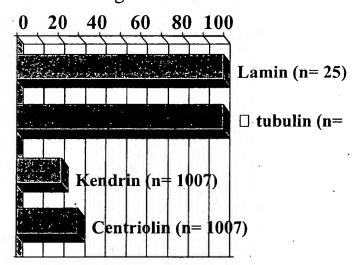


Figure 11

% cells with unaltered staining levels



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Figure 12A

								rı	ıguı	re 1	ZA					
_	_				caa Gln			ata	ttc	tcc	aaa		_	_		48
					cct Pro					_			-	-		96
					ttg Leu											144
					gag Glu											192
	_	-			gac Asp 70				-	-					-	240
_					gcc Ala									-		288
_	_	_			tct Ser	_							_	- =		336
_			-		att Ile			-	_		_	_			_	384
					tat Tyr											432
_	_				cgt Arg 150	-									_	480
		_			gaa Glu		_	_		_		_				528
-			-		gag Glu				-				-	_		576
		-	-	-	ctc Leu		-				_			_		624
	_		_	_	ttg Leu		-			_	_			_		672
	_	_			gtt Val 230								_			720

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Figure 12B

								L.	ıgu	reı	ZD.					
					tca Ser											768
					gag Glu											816
-	-	_	-	_	gac Asp		-		-	-		_		-		864
					aca Thr											912
	_				tta Leu 310											960
_		-	Leu	_	agt Ser	_						_	_			1008
-	_			_	tta Leu			-	-	_	_				_	1056
-	_	-	_	-	ttt Phe				-	-						1104
					gag Glu		_	_		-		-		_	_	1152
					aaa Lys 390									-		1200
					gac Asp											1248
					ctt Leu											1296
					caa Gln											1344
gca Ala	caa Gln 450	act Thr	cga Arg	cta Leu	tca Ser	gaa Glu 455	ctg Leu	cat His	gat Asp	gaa Glu	ata Ile 460	gaa Glu	aag Lys	gca Ala	gaa Glu	1392
					gct Ala 470											1440

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					att Ile											1488
_	_	_		-	cta Leu			-					_	-	_	1536
_	_		-	-	cag Gln	_	_	_		_	_	-		_	gga Gly	1584
_	_	_			aag Lys	-	_			_		-	_	_		1632
		_			cat His 550				_	•		_	_			1680
-		-		_	att Ile	_		-	-					_	-	1728
_	_	-			ctt Leu		_		_	_	_		_			1776
					cag Gln											1824
_	_	_	_	-	tta Leu	_		-		_		_		_		1872
_					ggc Gly 630	_	-		_	_	_			_		1920
_	_		_		aaa Lys			-	_	_	-	_		-	-	1968
				_	cag Gln							-				2016
					gca Ala											2064
					ttg Leu											2112
					gct Ala 710											2160

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Figure 12D

									5 W.							
cag Gln	ctc Leu	aag Lys	gaa Glu	gag Glu 725	Leu	gaa Glu	aaa Lys	gta Val	aca Thr 730	aga Arg	ctt Leu	acc Thr	cag Gln	tta Leu 735	gaa Glu	2208
					gca Ala											2256
					gcc Ala											2304
					aaa Lys											2352
					aaa Lys 790											2400
					cca Pro											2448
					tta Leu											2496
					aaa Lys											2544
					tcc Ser											2592
	-				gaa Glu 870	_	_	_	_	_				-	_	2640
					ttc Phe											2688
					aag Lys											2736
					tat Tyr											2784
					gat Asp											2832
	_		_	-	caa Gln 950		-	-				-	_			2880

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Figure 12E

					cag Gln											2928
					gcc Ala											2976
			Ile	-	aaa Lys	-	_	Leu	-				Gly		-	3024
_		Ile		_	gag Glu	_	Ala			_	_	Glu	-			3072
	Ser	-	-	-	gca Ala 1030	Gln	-	-	-	_	Leu		_	_	-	3120
					ctg Leu 5					Arg					Gln	3168
	_			Met	gag Glu				Val				_	Asn		3216
-	-		Glu		gag Glu		_	Asn			_	_	Arg			3264
		Ile	_		ctg Leu	_	Asn	_		-		Thr		_	-	3312
	Lys				gaa Glu 1110	Asn					Ile					3360
					cag Gln					Ser					Pro	3408
		_	_	Gly	tat Tyr				Met					Ser		3456
			Ser		agt Ser			Āla					Gly			3504
	_	Tyr		_	tca Ser		Pro	_	_			Arg			_	3552
	Asp				ggc Gly 1190	Ser					Ala					3600

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	_ ~	_	_	_	_

								I I	ıgu	le 1	4 F					
_					agg Arg 5	_		tta	cat	aaa Lys	ctg				Arg	3648
				Gly	gga Gly				Glu					Asp		3696
			Pro		ttt Phe			Pro					Met			3744
		Pro			tct Ser		Val					Ala				3792
	Pro			_	cca Pro 1270	Asn		-	_		Leu					3840
_	-				cct Pro		-		_	Pro	-				Pro	3888
				Phe	tcc Ser				Ile		_			Leu	_	3936
			Pro		cac His			Leu					Ser			3984
-	_	Ile	_	_	cat His		Lys		_	_		Glu	-			4032
	Arg				cgg Arg 1350	Gln					Met					4080
					ctt Leu					Lys					Glu	4128
_	~ .	~		His	aga Arg		-		Lys	_				Lys	_	4176
			Gly		gtt Val			Leu					Glu			4224
		Leu			cat His	-	Asp		-	-		Ile				4272
	Lys				aaa Lys 1430	Arg					Arg					4320

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										e I						
	_	_		-	gag Glu 5	_	-			Cys			-	-	Thr	4368
				Glu	aag Lys				Ala					Leu		4416
			Asp		gag Glu			Glu					Glu			4464
_		Leu	-		gct Ala	_	Gln	_		_	_	Leu	_	-	-	4512
gca Ala 1505	Lys	gat Asp	ttg Leu	gag Glu	cag Gln 1510	His	aaa Lys	atc Ile	aag Lys	caa Gln 1515	Glu	gaa Glu	atc Ile	ttg Leu	aaa Lys 1520	4560
_					gta Val	-	_		_	Ser	-			-	Leu	4608
				Glu	aaa Lys				Glu					Gln		4656
			Met		gaa Glu			Glu					Gln			4704
		Ser			ctt Leu		Gln					Glu				4752
_	Lys	_	_		aca Thr 1590	Ser	_	_	_		Met	_	_	_	-	4800
					aaa Lys					His					Ser	4848
-	_	-	-	Lys	gct Ala	_		_	Glu	-	-	-	_	Gly		4896
			Thr		aag Lys			His					Lys			4944
		Glu			ttt Phe		Lys					Val				4992
-	Arg				ctt Leu 1670	Thr			_	_	Glu		_		-	5040

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Glu Glu Asn Leu Gln Val Val Leu Arg Gln Met Ser Lys His Lys Thr 1695 gaa cta aag aat att ctg gac atg ttg caa ctt gaa aac cat gag cta Glu Leu Lys Asn Ile Leu Asp Met Leu Gln Leu Glu Asn His Glu Leu 1700 caa ggt ttg aag cta caa cat gac caa agg gta tct gaa tta gag aag Gln Gly Leu Lys Leu Gln His Asp Gln Arg Val Ser Glu Leu Glu Lys 1715 act cag gtg gca gtg cta gag gag aaa ctg gag tta gag aat ttg cag Thr Gln Val Ala Val Leu Glu Glu Glu Lys Leu Glu Leu Glu Asn Leu Gln 1730 cag ata tcc cag cag cag aaa ggg gaa ata gag tgg cag aag cag ctc Gln Ile Ser Gln Gln Gln Lys Gly Glu Ile Glu Trp Gln Lys Gln Leu 1745 ctt gag agg gat aaa cga gaa ata gaa cga atg act gct gag tcc cga Leu Glu Arg Asp Lys Arg Glu Ile Glu Arg Met Thr Ala Glu Ser Arg 1765 gct tta caa tcg tgt gtg gag tgt ttg agc aaa gag aa gat ctc Ala Leu Gln Ser Cys Val Glu Cys Leu Ser Lys Glu Lys Glu Asp Leu 1780 caa gag aaa tgt gac att tgg gaa aaa aag ttg gca caa acc aaa agg Gln Glu Lys Cys Asp Ile Trp Glu Lys Lys Leu Ala Gln Thr Lys Arg 1795 gtt tta gca gca gca gaa gaa aat agg aaa atg gag caa caa acc aaa agg Gln Glu Lys Cys Asp Ile Trp Glu Lys Lys Leu Ala Gln Thr Lys Arg 1795 gtt tta gca gca gca gaa gaa aat agg aaa atg gag caa cta acc aca aagg Gln Glu Lys Cys Asp Ile Trp Glu Lys Lys Leu Ala Gln Thr Lys Arg 1800 gaa aag ttg gaa ttg aat gt gac att tgg gaa aat agg caa att gag caa acc aac tta Val Leu Ala Ala Ala Glu Glu Asn Ser Lys Met Glu Gln Ser Asn Leu 1810 gaa aag ttg gaa ttg aat gt ca ga aac ctg cag cag gaa cta gac caa Glu Lys Leu Glu Leu Asn Val Arg Lys Leu Gln Gln Glu Leu Asp Gln 1825 cag cag ctc caa gaa aag cga gaa gac act acc acc acc acc acc Gln Gln Gln Leu Gln Asp His Leu Asn Asp Ile Ser Ala Met Gln 1845 cag cag ctc caa gaa cag cat ttg aac cta acc cta ctg cag gag gas Gln Gln Leu Gln Gln Asp His Leu Asn Leu Ala Lys Gln Asp Leu Leu 1875 cac acc acc aca gac cat ttg aac cta cag caa cag gac ctg ctt Leu Ala Asn. Val Gln Asp His Leu Asn Leu Ala Lys Gln Asp Leu Leu 1875 cac acc acc aca gac cat cag gat gtg ttg ctc agg gag cag cc cg ctc His Thr Thr Lys His G									W. T	gui	CI	411					
Glu Leu Lys Asn Ile Leu Asp Met Leu Gln Leu Glu Asn His Glu Leu 1700 1705 1705 1710 caa ggt ttg aag cta caa cat gac caa agg gta tct gaa tta gag aag Gln Gly Leu Lys Leu Gln His Asp Gln Arg Val Ser Glu Leu Glu Lys 1715 1720 1725 1725 1725 act cag gtg gca gtg cta gag gag aaa ctg gag tta gag aat ttg cag Thr Gln Val Ala Val Leu Glu Glu Lys Leu Glu Leu Glu Asn Leu Gln 1730 1740 1735 1740 cag ata tcc cag cag cag cag aaa ggg gaa ata gag tgg cag aag cag ctc Gln Ile Ser Gln Gln Gln Lys Gly Glu Ile Glu Trp Gln Lys Gln Leu 1745 1760 1760 ctt gag agg gat aaa cga gaa ata gaa cga atg act gct gag tcc cga Leu Glu Arg Asp Lys Arg Glu Ile Glu Arg Met Thr Ala Glu Ser Arg 1765 1770 1775 gct tta caa tcg tgt gtt gag tgt ttg agc aaa gaa aga gaa gad ctc Ala Leu Gln Ser Cys Val Glu Cys Leu Ser Lys Glu Lys Glu Asp Leu 1780 1785 1790 caa gag aaa tgt gac att tgg gaa aaa aaa aag ttg gca caa acc aaa agg Gln Glu Lys Cys Asp Ile Trp Glu Lys Lys Leu Ala Gln Thr Lys Arg 1790 caa gag aaa tgt gac att tgg gaa aaa aag caa atg gag caa tca acc taa 1800 1800 1800 1800 1800 1800 1800 18					Gln	Val				Gln	Met				Lys	Thr	5088
Clin Gly Leu Lys Leu Gln His Asp Gln Arg Val Ser Glu Leu Glu Lys 1715				Asn	Ile				Leu	Gln				His	Glu		5136
Thr Gln Val Ala Val Leu Glu Glu Lys Leu Glu Leu Glu Asn Leu Gln 1730 1735 1740 cag ata tcc cag cag cag aaa aggg gaa ata gag tgg cag aag cag ctc Gln Ile Ser Gln Gln Gln Lys Gly Glu Ile Glu Trp Gln Lys Gln Leu 1750 1750 1760 ctt gag agg gat aaa cga gaa ata gaa cga atg act gct gag tcc cga Leu Glu Arg Asp Lys Arg Glu Ile Glu Arg Met Thr Ala Glu Ser Arg 1765 1770 1775 gct tta caa tcg tgt gag tgt tg agc aaa gaa aag gaa agg aga ctc Ala Leu Gln Ser Cys Val Glu Cys Leu Ser Lys Glu Lys Glu Asp Leu 1780 1785 1790 caa gag aaa tgt gac att tgg gaa aaa aa aag ttg gca caa acc aaa agg Gln Glu Lys Cys Asp Ile Trp Glu Lys Lys Leu Ala Gln Thr Lys Arg 1790 gtt tta caa cgca gca gaa gaa aat agc aaa atg gag caa tca aac tta Val Leu Ala Ala Ala Glu Glu Asn Ser Lys Met Glu Gln Ser Asn Leu 1810 1825 gaa aag ttg gaa ttg aat gtc aga aaa ctg cag cag gaa cta gac caa Glu Lys Leu Glu Lya Arg Lys Leu Gln Gln Gln Gln Leu Asp Gln 1825 1830 1830 1840 cta aac aga gac aag ttg tca ctg cat aac gac att tca gca aca caa Clu Asn Arg Asp Lys Leu Ser Leu His Asn Asp Ile Ser Ala Met Gln Gln Gln Cln Gln Gln Gln Gln Gln Gln Gln Gln Gln G			Leu	Lys				Asp	Gln		_		Glu	Leu		_	5184
Gin file Ser Gin Gin Gin Lys Gly Glu file Glu Trp Gin Lys Gin Leu 1750 1750 1760 ctt gag agg gat aaa cga gaa ata gaa cga atg act gct gag tcc cga Leu Glu Arg Asp Lys Arg Glu file Glu Arg Met Thr Ala Glu Ser Arg 1775 1770 1775 gct tta caa tcg tgt gtt gag tgt ttg agc aaa gaa aag gaa gat ctc Ala Leu Gin Ser Cys Val Glu Cys Leu Ser Lys Glu Lys Glu Asp Leu 1780 1785 1790 caa gag aaa tgt gac att tgg gaa aaa aag ttg gca caa acc aaa agg Gin Glu Lys Cys Asp file Trp Glu Lys Lys Leu Ala Gin Thr Lys Arg 1795 gtt tta gca gca gca gaa gaa aat agc aaa atg gag caa tca aac tta Val Leu Ala Ala Glu Glu Asn Ser Lys Met Glu Gin Ser Asn Leu 1810 1815 1820 gaa aag ttg gaa ttg aat gtc aga aaa ctg cag cag gaa cta gac caa Glu Lys Leu Asn Val Arg Lys Leu Gin Gin Glu Leu Asp Gin 1825 1830 1830 1840 cta aac aga gac aag ttg tca ctg cat aac gac att tca gca atg caa Leu Asn Arg Asp Lys Leu Ser Leu His Asn Asp file Ser Ala Met Glu Gin Gin Gin Leu Asn Val 1845 1850 1855 cag cag ctc caa gaa aaa cga gaa gca gta aac tca ctg cag atg caa Cag ag cag cac cac ctg cag cag cac cac ctg cag gag gaa Gin Gin Leu Gin Giu Lys Arg Glu Ala Val Asn Ser Leu Gin Glu Giu Giu Gin Gin Leu Asn Val Gin Asp His Leu Asn Leu Ala Lys Gin Asp Leu Leu 1870 cta gct aat gtc caa gac cat ttg aac cta gca aaa cag gac ctg ctt Leu Ala Asn. Val Gin Asp His Leu Asn Leu Ala Lys Gin Asp Leu Leu 1875 cac acc acc acc acc acc acc acc acc gat cag gtg ttg ctc agt gag gag cac ccg ctc Cil Thr Thr Lys His Gin Asp Val Leu Leu Ser Glu Gin Thr Arg Leu 1890 cag aag gac atc agt gaa tgg gca aat agg ttt gaa gac tgt cag aaa Gin Lys Asp file Ser Glu Trp Ala Asn Arg Phe Glu Asp Cys Gin Lys		Gln	Val				Glu	Glu				Leu	Glu				5232
Leu Glu Arg Asp Lys Arg Glu Ile Glu Arg Met Thr Ala Glu Ser Arg 17765 gct tta caa tcg tgt gtt gag tgt ttg agc aaa gaa aag gaa gat ctc Ala Leu Gln Ser Cys Val Glu Cys Leu Ser Lys Glu Lys Glu Asp Leu 1780 caa gag aaa tgt gac att tgg gaa aaa aag ttg gca caa acc aaa agg Gln Glu Lys Cys Asp Ile Trp Glu Lys Lys Leu Ala Gln Thr Lys Arg 1795 gtt tta gca gca gca gaa gaa aat agc aaa atg gag caa tca aac tta Val Leu Ala Ala Ala Glu Glu Asn Ser Lys Met Glu Gln Ser Asn Leu 1810 gaa aag ttg gaa ttg aat gtc aga aaa ctg cag cag gaa cta gac caa Glu Lys Leu Glu Leu Asn Val Arg Lys Leu Gln Gln Glu Leu Asp Gln 1825 cta aac aga gac aag ttg tca ctg cat aac gac att tca gca atg caa Caa Glu Lys Leu Glu Lys Leu Ser Leu His Asn Asp Ile Ser Ala Met Gln 1845 cta aac aga gac aag ttg tca ctg cat aac gac att tca gca atg caa 5568 Leu Asn Arg Asp Lys Leu Ser Leu His Asn Asp Ile Ser Ala Met Gln 1845 cag cag ctc caa gaa aaa cga gaa gca gta aac tca ctg cag gag gaa Gln Gln Glu Lys Arg Glu Ala Val Asn Ser Leu Gln Glu Glu Glu 1860 cta gct aat gtc caa gac cat ttg aac cta gca aaa cag gac ctg ctt Leu Ala Asn Val Gln Asp His Leu Asn Leu Ala Lys Gln Asp Leu Leu 1870 cac acc acc acc aag cat cag gat gtg ttg ctc agt gag cag acc cga ctc Ser Ser Leu Ala Asn Val Gln Asp His Leu Asn Leu Ala Lys Gln Asp Leu Leu 1880 cac acc acc acc aag cat cag gat gtg ttg ctc agt gag cag acc cga ctc Ser	Gln	Ile	tcc Ser	cạg Gln	cag Gln	Gln	Lys	Gly ggg	gaa Glu	ata Ile	Glu	Trp	cag Gln	aag Lys	cag Gln	Leu	5280
Ala Leu Gln Ser Cys Val Glu Cys Leu Ser Lys Glu Lys Glu Asp Leu 1780 caa gag aaa tgt gac att tgg gaa aaa aag ttg gca caa acc aaa agg 5424 Gln Glu Lys Cys Asp Ile Trp Glu Lys Lys Leu Ala Gln Thr Lys Arg 1800 gtt tta gca gca gca gaa gaa aat agc aaa atg gag caa tca aac tta 1810 gaa aag ttg gaa ttg aat gtc aga aaa ctg cag cag gaa cta gac caa Glu Lys Leu Gln Leu Asn Val Arg Lys Leu Gln Gln Glu Leu Asp Gln 1825 cta aac aga gac aag ttg tca ctg cat aac gac att tca gca atg caa Leu Asn Arg Asp Lys Leu His Asn Asp Ile Ser Ala Met Gln 1845 cag cag ctc caa gaa aaa cga gaa gca gta aac tca ctg cag cag gag gaa cta gac caa Seln Gln Gln Leu Gln Glu Lys Arg Gln 1855 cag cag ctc caa gaa aaa cga gaa gca gta aac tca ctg cag gag gaa Gln Gln Glu Glu Glu Glu Glu Glu Glu Glu Gln Gln Glu Glu Gln	ctt Leu	gag Glu	agg Arg	gat Asp	Lys	Arg	gaa Glu	ata Ile	gaa Glu	Arg	Met	act Thr	gct Ala	gag Glu	Ser	Arg	5328
Gln Glu Lys Cys Asp Ile Trp Glu Lys Lys Leu Ala Gln Thr Lys Arg 1795 1800 1805 gtt tta gca gca gca gaa gaa aat agc aaa atg gag caa tca aac tta Val Leu Ala Ala Ala Glu Glu Asn Ser Lys Met Glu Gln Ser Asn Leu 1810 1815 1820 gaa aag ttg gaa ttg aat gtc aga aaa ctg cag cag gaa cta gac caa Glu Lys Leu Glu Leu Asn Val Arg Lys Leu Gln Gln Glu Leu Asp Gln 1825 1830 1835 1840 cta aac aga gac aag ttg tca ctg cat aac gac att tca gca atg caa Leu Asn Arg Asp Lys Leu His Asn Asp Ile Ser Ala Met Gln 1845 1850 cag cag ctc caa gaa aaa cga gaa gca gta aac tca ctg cag gag gaa-Gln Gln Leu Gln Glu Lys Arg Glu Ala Val Asn Ser Leu Gln Glu Glu Glu 1860 1865 1870 cta gct aat gtc caa gac cat ttg aac cta gca aaa cag gac ctg ctt Leu Ala Asn Val Gln Asp His Leu Asn Leu Ala Lys Gln Asp Leu Leu 1875 1880 1885 cac acc acc acg cat cag gat gtg ttg ctc agt gag cag acc cga ctc His Thr Thr Lys His Gln Asp Val Leu Leu Ser Glu Gln Thr Arg Leu 1890 1895 1900 cag aag gac atc agt gaa tgg gca aat agg ttt gaa gac tgt cag aaa Gln Lys Asp Ile Ser Glu Trp Ala Asn Arg Phe Glu Asp Cys Gln Lys				Ser	Cys				Leu	Ser				Glu	Asp		5376
Val Leu Ala Ala Ala Glu Glu Asn Ser Lys Met Glu Gln Ser Asn Leu 1810 1815 1820 gaa aag ttg gaa ttg aat gtc aga aaa ctg cag cag gaa cta gac caa Glu Lys Leu Glu Leu Asn Val Arg Lys Leu Gln Gln Glu Leu Asp Gln 1825 1830 1835 1840 cta aac aga gac aag ttg tca ctg cat aac gac att tca gca atg caa Leu Asn Arg Asp Lys Leu Ser Leu His Asn Asp Ile Ser Ala Met Gln 1845 1850 1855 cag cag ctc caa gaa aaa cga gaa gca gta aac tca ctg cag gag gaa Gln Gln Leu Gln Glu Lys Arg Glu Ala Val Asn Ser Leu Gln Glu Glu 1860 1865 1870 cta gct aat gtc caa gac cat ttg aac cta gca aaa cag gac ctg ctt Leu Ala Asn Val Gln Asp His Leu Asn Leu Ala Lys Gln Asp Leu Leu 1875 1880 1885 cac acc acc aag cat cag gat gtg ttg ctc agt gag cag acc cga ctc His Thr Thr Lys His Gln Asp Val Leu Leu Ser Glu Gln Thr Arg Leu 1890 1895 1900 cag aag gac atc agt gaa tgg gca aat agg ttt gaa gac tgt cag aaa Gln Lys Asp Ile Ser Glu Trp Ala Asn Arg Phe Glu Asp Cys Gln Lys			Lys	Cys	-			Glu	Lys	_	_	_	Gln	Thr			5424
Glu Lys Leu Glu Leu Asn Val Arg Lys Leu Gln Gln Glu Leu Asp Gln 1825 1830 1830 1835 1840 cta aac aga gac aag ttg tca ctg cat aac gac att tca gca atg caa Leu Asn Arg Asp Lys Leu Ser Leu His Asn Asp Ile Ser Ala Met Gln 1845 1850 1855 cag cag ctc caa gaa aaa cga gaa gca gta aac tca ctg cag gag gaa- Gln Gln Leu Gln Glu Lys Arg Glu Ala Val Asn Ser Leu Gln Glu Glu 1860 1865 1870 cta gct aat gtc caa gac cat ttg aac cta gca aaa cag gac ctg ctt Leu Ala Asn Val Gln Asp His Leu Asn Leu Ala Lys Gln Asp Leu Leu 1875 1880 1885 cac acc acc aag cat cag gat gtg ttg ctc agt gag cag acc cga ctc His Thr Thr Lys His Gln Asp Val Leu Leu Ser Glu Gln Thr Arg Leu 1890 1895 1900 cag aag gac atc agt gaa tgg gca aat agg ttt gaa gac tgt cag aaa Gln Lys Asp Ile Ser Glu Trp Ala Asn Arg Phe Glu Asp Cys Gln Lys	_	Leu	Āla		-	_	Glu	Asn	_		_	Glu	Gln				54,72
Leu Asn Arg Asp Lys Leu Ser Leu His Asn Asp Ile Ser Ala Met Gln 1845 cag cag ctc caa gaa aaa cga gaa gca gta aac tca ctg cag gag gaa Gln Gln Leu Gln Glu Lys Arg Glu Ala Val Asn Ser Leu Gln Glu Glu 1860 cta gct aat gtc caa gac cat ttg aac cta gca aaa cag gac ctg ctt Leu Ala Asn Val Gln Asp His Leu Asn Leu Ala Lys Gln Asp Leu Leu 1875 cac acc acc aag cat cag gat gtg ttg ctc agt gag cag acc cga ctc His Thr Thr Lys His Gln Asp Val Leu Leu Ser Glu Gln Thr Arg Leu 1890 cag aag gac atc agt gaa tgg gca aat agg ttt gaa gac tgt cag aaa Gln Lys Asp Ile Ser Glu Trp Ala Asn Arg Phe Glu Asp Cys Gln Lys	Ğlu	Lys	-	_		Asn	Val	_		_	Gln	Gln	_		-	Gln	5520
Gln Gln Leu Gln Glu Lys Arg Glu Ala Val Asn Ser Leu Gln Glu Glu 1860 1865 1870 Cta gct aat gtc caa gac cat ttg aac cta gca aaa cag gac ctg ctt Leu Ala Asn Val Gln Asp His Leu Asn Leu Ala Lys Gln Asp Leu Leu 1875 1880 Cac acc acc aag cat cag gat gtg ttg ctc agt gag cag acc cga ctc His Thr Thr Lys His Gln Asp Val Leu Leu Ser Glu Gln Thr Arg Leu 1890 1895 Cag aag gac atc agt gaa tgg gca aat agg ttt gaa gac tgt cag aaa Gln Lys Asp Ile Ser Glu Trp Ala Asn Arg Phe Glu Asp Cys Gln Lys					Lys	Leu				Asn	Asp				Met	Gln	5568
Leu Ala Asn Val Gln Asp His Leu Asn Leu Ala Lys Gln Asp Leu Leu 1875 cac acc acc aag cat cag gat gtg ttg ctc agt gag cag acc cga ctc His Thr Thr Lys His Gln Asp Val Leu Leu Ser Glu Gln Thr Arg Leu 1890 cag aag gac atc agt gaa tgg gca aat agg ttt gaa gac tgt cag aaa Gln Lys Asp Ile Ser Glu Trp Ala Asn Arg Phe Glu Asp Cys Gln Lys				Gln	Glu				Āla	Val				Gln	Glu		5616
His Thr Thr Lys His Gln Asp Val Leu Leu Ser Glu Gln Thr Arg Leu 1890 1895 1900 cag aag gac atc agt gaa tgg gca aat agg ttt gaa gac tgt cag aaa 5760 Gln Lys Asp Ile Ser Glu Trp Ala Asn Arg Phe Glu Asp Cys Gln Lys			Asn.	Val				Leu	Asn				Gln	Asp			5664
Gln Lys Asp Ile Ser Glu Trp Ala Asn Arg Phe Glu Asp Cys Gln Lys		Thr	Thr				Asp	Val				Glu	Gln				5712
	Gln	Lys	_		-	Glu	Trp	_			Phe	Glu	-	_	-	Lys	5760

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Figure 12I

									~	10,						
					caa Gln 5					Val					Ile	5808
				Leu	aaa Lys				Gln					Gln		5856
			Glu		gaa Glu			Glu					Thr			5904
		Leu			caa Gln		His					Glu				5952
	Lys				gac Asp 1990	Gln					Val					6000
					ctg Leu 5					Arg					Leu	6048
				Ser	caa Gln				Gln					Glu		6096
	_		Glu		tca Ser			Leu	_	_		_	Lys		_	6144
		Met			gac Asp		Ser					Gln				6192
	Arg				gag Glu 2070	Lys					Leu					6240
aag Lys	atc Ile	cag Gln	cgg Arg	agc Ser 2089	cag Gln	ctg Leu	gag Glu	aaa Lys	aac Asn 2090	Leu	ctt Leu	gag Glu	caa Gln	aaa Lys 2099	Gln	6288
				Ile	caa Gln				Ala					Val		6336
			His		cgg Arg			Arg					Leù			6384
		Tyr			acg Thr		Leu					Ala			aaa Lys	6432
_	Leu		_	-	caa Gln 2150	Met	_		_	-	Ala	-				6480

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Figure 12J

					Asp	gaa Glu				Ser					Asn	6528
_				Glu		cca Pro	Ala	_	Leu	-	_		_	Glu	_	6576
			Leu			gaa Glu		Glu					Asn			6624
		Met		-		cct Pro 221	Phe	_	_		_	Asn				6672
_	His		-	_	_	cac His		_		_	Āla					6720
_	-			_	Asp	cga Arg		_	_	Gln		-		-	Met	6768
	_		_	Glu	_	tta Leu			Gly	_		_		Glu		6816
			Ser			aga Arg		Val					Glu			6864
	_	Thr		_	_	tca Ser 2295	Ala				_	Leu		-	-	6912
	ser					gac Asp)					Gln		_	-	_	6960
	-		gcc Ala	_			69	78				NO: 1 NO: 2				

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н	19	Ø	11	r	e	ı	.5	A
_	-	_	•	_	•	-	_	

								F	ıgui	re I	<u>3A</u>		·				
					gag Glu												48
_	_		-		ttc Phe	_	_	_					_	_	_		96
	_			_	acg Thr		_		-						_		144
	-	_			agt Ser	_	_		_		-	_	_				192
			-		tgc Cys 70		_			_		_			_		240
				_	ttt Phe	_	_	_	_		-	_	-				288
	-		•		gaa Glu	-	_	_	-	_		-		_			336
					ggg Gly												384
_			_		aca Thr	_		_				_	_	-			432
_				_	gac Asp 150				_				_				480
-	_	_			cca Pro	-	-	-		_				_	_		528
					cgt Arg												576
_	_	_			ttc Phe			_	_			-	_	_	_	•	624
	_			_	gag Glu	_	_		-	_	_		_				672
					cgt Arg 230												720

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Figure 13B

					gag Glu											768
					ctg Leu											816
					acg Thr											864
-			_	_	ctg Leu		_	_		Gln	-		-	_		912
-				_	cac His 310	_			_							960
					gct Ala											1008
			_	_	ata Ile	-	-		_	_	-	-		_		1056
-		_		_	tta Leu	-			•		-	_		_	_	1104
			-	_	gag Glu	_				_		_		-	_	1152
	_	_		-	gag Glu 390	_		_				-			_	1200
_	_		-		agg Arg		_		_				_	•		1248
	_		_		gac Asp	_	Gln			_			-		_	1296
					ttc Phe								Gln			1344
					gca Ala											1392
				_	ttg Leu 470			-		-		_			-,	1440

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Figure 13C

								11, 1	gui	CI	JC					
					gag Glu											1488
	~ ~	_	_		gaa Glu	_	_	_	~	_	_			_		1536
					caa Gln											1584
					tac Tyr											1632
					gaa Glu 550											1680
		~			tta Leu	-	-						_		-	·1728
					gag Glu											1776
					gaa Glu											1824
				_	atc Ile	-					_		_	_	_	1872
_	_				gca Ala 630	_					_	_	_			1920
-			-		gag Glu							-			_	1968
		Ξ			gcc Ala	Ξ					Ξ.					2016
					aag Lys											2064
					ctc Leu										gag Glu	2112
					act Thr 710											2160

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Figure 13D

								՝ L I	gui	e i	JU						
					gac Asp											2208	
_			_	-	aaa Lys	_	-			_		_		-		2256	
					gag Glu											2304	
					ctg Leu											2352	
			_		gag Glu 790		-	_	_	_	_		_			2400	
gac Asp	caa Gln	cag Gln	gca Ala	gcc Ala 805	cag Gln	atc Ile	ctg Leu	gat Asp	ctg Leu 810	gag Glu	agg Arg	tcc Ser	ttg Leu	acg Thr 815	gag Glu	2448	
cag Gln	cag Gln	ggc Gly	cgc Arg 820	ctg Leu	cag Gln	cag Gln	ctg Leu	gaa Glu 825	cag Gln	gac Asp	ctc Leu	act Thr	tca Ser 830	gac Asp	gac Asp	2496	
					cag Gln											2544	
					ctc Leu											2592	
					agg Arg 870											2640	
					caa Gln											2688	
					cag Gln											2736	
					gag Glu											2784	
					tta Leu											2832	
					cag Gln 950											2880	

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Figure 13E

										161						
					tcc Ser											2928
	_		_		atc Ile	_					_	_				2976
	_	_	Asp		gag Glu	_		Leu			_	_	Ser			3024
	_	Ile			caa Gln	-	Leu			_	_	Arg				3072
999 Gly 102	Glu	cta Leu	cag Gln	tct Ser	gtg Val 1030	Arg	gac Asp	cac His	ctg Leu	cga Arg 103!	Thr	gaa Glu	gtg Val	agc Ser	aca Thr 1040	3120
					gtg Val					Gln					Gly	3168
				Glu	aag Lys				Leu					Glu		3216
			Gln		gca Ala			Gln					Glu			3264
		Leu			cag Gln		Gln					Gln				3312
	Lys				tta Leu 111(Ser					Ile					3360
					ctg Leu					Glu					Glu	3408
				Leu	tcc Ser				Ala					Ser		3456
			Gly		ctc Leu			Ala					Leu			3504
		Glu			agg Arg		Ala					Ser				3552
	Arg				tgc Cys 1190	Leu					Ala				ctg Leu 1200	3600

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Figure 13F

		Figu	ire 13F		
tcg aca gct cc Ser Thr Ala Pr			p Ser Asp Val		3648
gag ttg gac ag Glu Leu Asp Ar 12	g Thr Leu Ser				3696
gaa att agc ag Glu Ile Ser Se 1235			-	Pro Glu Ser	3744
gtg cgg gag tg Val Arg Glu Cy 1250		Ile Arg Arg			3792
ctg gcc gtg ga Leu Ala Val As 1265					3840
ctg gaa gaa gc Leu Glu Glu Al			g Phe Glu Lys		3888
ttt aag aat ga Phe Lys Asn Gl 13	u Glu Thr Ala				3936
ctg gag tgt tt Leu Glu Cys Le 1315				Leu Ala Leu	3984
gag ctg cac aa Glu Leu His Ly 1330		Thr Leu Glu			4032
gca gat ctg aa Ala Asp Leu Ly 1345					4080
ctg gtg ctg ga Leu Val Leu Gl			g Gln Leu Gln		4128
cag gag cag gc Gln Glu Gln Al 13	a Ala Leu Arg				4176
ggg gag gcc ac Gly Glu Ala Th 1395				Ala Leu Arg	4224
aag gaa gtg ga Lys Glu Val Gl 1410		Lys Glu Glr			4272
gct gag aag ga Ala Glu Lys As 1425					4320

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								1, 1	gui	CI	JU					
					cag Gln 5					Arg					Gln	4368
				Thr	gcc Ala				Gln					Asp		4416
	_	_	Asn	_	cgg Arg			Met	-		-	-	Āla			4464
		Glu			gag Glu		Gln					Arg			ggg Gly	4512
	Leu				gcc Ala 151	Lys					Gly					4560
					Asp					Leu			Gln			4608
				Asp	gaa Glu				Leu			Gln		Glu		4656
_	_	_	Gln		tta Leu	_	_	Glu	-	_			Arg	_		4704
		Asn			atc Ile		Lys					Leu				4752
	Glu				aac Asn 1590	Ile					Glu					4800
					cag Gln					Leu					Leu	4848
				Asp	gca Ala				Pro		_	_	_	Gly	_	4896
			Gly		gaa Glu		_	Leu				_	Arg	-		4944
ctg Leu	cgg Arg 1650	Arg	gag Glu	agc Ser	gag Glu	gtt Val 1655	Leu	gac Asp	tta Leu	aaa Lys	gaa Glu 1660	Gln	cta Leu	gaa Glu	aag Lys	4992
	Lys				gaa Glu 1670	Ser					Ile					5040

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										C I						
tta Leu	aaa Lys	ttg Leu	gac Asp	atg Met 168	Gln	aac Asn	agc Ser	cag Gln	act Thr 169	Ala	gtc Val	agc Ser	ctc Leu	aga Arg 169	Glu	5088
ctt Leu				Asn					Val					Ser		5136
gag Glu			Glu					Ile					Glu			5184
aaa Lys	cga Arg 1730	Leu	caa Gln	aag Lys	gag Glu	aaa Lys 173	Ala	gag Glu	gaa Glu	att Ile	gaa Glu 1740	Gln	ctc Leu	cat His	gaa Glu	5232
gtc Val 1745	Ile		_	_	_	His		_			Met				-	5280
cac (Ser					Leu					Leu	5328
tgc (-	-	Gly			_		Gln	-		-		Glu		5376
gag d Glu A			Leu					Ala					Leu			5424
cag g Gln G		Arg			-	_	Ala	-		_	_	Gln	_	_		5472
cag g Gln (1825						Ala					Ala			Glu		5520
aat q Asn V					Glu					Asp					Ile	5568
cag g Gln (-	Ala	-	_		-	Lys	-			_	Ala		5616
aga a Arg A			Glu		-	-	_	Asn	_		-		Ala			5664
gcc q Ala (Leu					Leu					Ile				5712
ctg (Leu (1905						Ala					Pro					5760

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Figure 13I

									_	re						
					tgt Cys S					Arg					Leu	5808
	_			Leu	agg Arg	_	_		Glu	_	_			Gln		5856
			Thr		cac His			Val					Pro			5904
_	_	Asp			gcc Ala	_	Āla	_				Asp				5952
	His	_	_	_	ttg Leu 1990	Glu	-	_	_		Asp		_			6000
			Val		gtg Val 5					Ala					Gln	6048
				Ser	gtg Val				Cys					Gln		6096
			Leu		aaa Lys			Met					Glu			6144
		Gly			aaa Lys		Leu					Leu				6192
_	Leu	-	-	_	gtg Val 2070	Lys	_		_	_	Lys			_	-	6240
					ttc Phe					Ala					Ser	. 6288
_			-	Āla	tca Ser	_		_	Leu		_	_		Ser	_	6336
-		_	Asp		gaa Glu			Asp					Ile	_		6384
-	-	Ala			gcc Ala	_	Gly		-		_	Val				6432
	Ala				tgt Cys 2150	Āsp					Pro					6480

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Figure 13J

								F.	ıgu	re j	JJ			5		
					tgg Trp 5					Pro					Asp	6528
				Glu	aaa Lys				Gln					Ser		6576
ccg Pro	acc Thr	agc Ser 219	Val	ctt Leu	ggt Gly	ggc	tcc Ser 220	Arg	cac His	cag Gln	agc Ser	cac His 220	Thr	gca Ala	gag Glu	6624
		Pro			agc Ser		Val					Leu				.6672
_	Ser			_	ctc Leu 2230	Arg	_	_			Leu					6720
_					ccc Pro 5				_	Leu	_	_		_	Ala	6768
				Gly	gac Asp				Thr					Thr		6816
	_		Leu		tgt Cys			Gly			-	-	Ala			6864
		Trp			tct Ser		Pro					His				6912
-	Ala				gat Asp 2310	Val	_	-			Thr					6960
		_			agt Ser					Gly		_			Ala	7008
_	_	_		Lys	agt Ser	-		_	Gly			_	_	Leu	-	7056
_			Gly		cct Pro		_	Gl'n		_			Val			7104
		Ile			agg Arg		Gln					Ala				7152
	Glu				aag Lys 2390	His					Leu					7200

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1110			-1/	3 W 7
M 1	gu	MA	- 1	1 L
יי	у н			717
-				

								T, I	gu		JI					
					atc Ile 5					Glu					Pro	7248
				His	cca Pro				Glu					Asp		7296
_			Gly		aag Lys	_		Glu					Cys		-	7344
		Gly			ctg Leu		Val					Phe				7392
-	Glu	_	_		gtt Val 2470	Glu	_	_		_	Leu	_		-	-	7440
					tcc Ser					Leu					Arg	7488
				Leu	cag Gln				Leu					Leu		7536
			Ser		ctg Leu			Ile					Āla			7584
-	_	Thr		_	cag Gln		Gln		_	_	_	His	_	_	_	7632
	Leu				gag Glu 2550	Ala					Gln					7680
					ctg Leu					Val					Cys	7728
				Leu	cag Gln				Ser					Lys		7776
			Gln		ctc Leu			Ala					Val			7824
		Ser			tgt Cys		Ser					Glu				7872
	Ser				gtg Val 2630	Gln					Gln				atg Met . 2640	7920

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Figure 13L

•	I *)	igure 13L	
ctg agc agt aag gag Leu Ser Ser Lys Glu 2645	Asn Glu Leu Lys		
agt gag cag ggg aag Ser Glu Gln Gly Lys 2660		Gln Ser Gln Leu Gl	u Glu Glu
cag ctg cgg cac ctg Gln Leu Arg His Leu 2675	cag agg gag agc Gln Arg Glu Ser 2680	cag agt gcc aag gc Gln Ser Ala Lys Al 2685	c ctg gag 8064 a Leu Glu
gag ctg cgg gcg tct Glu Leu Arg Ala Ser 2690	ttg gag aca cag Leu Glu Thr Gln 2695	cgt gct cag agc ag Arg Ala Gln Ser Se 2700	t cga ctc 8112 r Arg Leu
tgc gtg gca ctg aaa Cys Val Ala Leu Lys 2705			
gag ctg cgt atc gag Glu Leu Arg Ile Glu 2725	His Ser Arg Cys		
cgg agc cag ctc tct q Arg Ser Gln Leu Ser (2740		Asp Leu Ala Ala Gl	ı Lys Ser
cgc acc ctg gag ctg f Arg Thr Leu Glu Leu s 2755			
gag cag ctg agc cag a Glu Gln Leu Ser Gln i 2770			
cag gcc cat cac gct of Gln Ala His His Ala H			
gtg gtg gac ttg caa g Val Val Asp Leu Gln i 2805	Ala Met Leu Glu		
cat tot cag cag cag c His Ser Gln Gln Gln 1 2820		Ala Gln Lys His Cys	Glu Ala
ctc agg aga gag aag g Leu Arg Arg Glu Lys (2835			
gcc ctg cac acc caa a Ala Leu His Thr Gln I 2850			
agg gag aaa cca gcg t Arg Glu Lys Pro Ala 1 2865			

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T-10	1	1	n Af
Figu	re I	. 1	V
		•	

								L I	gui	G T	DIVE					
					gaa Glu 5					Ala					Glu	8688
gcc Ala	agg Arg	cag Gln	agc Ser 290	Pro	gcg Ala	gct Ala	gcg Ala	gag Glu 290	Gln	tgg Trp	agg Arg	aag Lys	tgg Trp 291	Gln	aga Arg	8736
gac Asp	aag Lys	gag Glu 291	Lys	ctg Leu	cga Arg	gaa Glu	tta Leu 2920	Glu	ctg Leu	cag Gln	cgt Arg	cag Gln 292	Arg	gac Asp	ttg Leu	8784
		Ile			ctt Leu		Gln					Leu				8832
gac Asp 294	Glu	gtg Val	cct Pro	ggc Gly	agc Ser 2950	Arg	ctc Leu	cac His	cta Leu	ggt Gly 2959	Ser	gcc Ala	cgc Arg	agg Arg	gct Ala 2960	8880
gcc Ala	ggc Gly	tcg Ser	gat Asp	gcg Ala 296	gac Asp	cac His	ctc Leu	cgg Arg	gaa Glu 2970	Gln	cag Gln	cga Arg	gag Glu	ctg Leu 297	Glu	8928
gcg Ala	atg Met	agg Arg	cag Gln 2980	Arg	ctg Leu	ctc Leu	tct Ser	gcc Ala 298	Ala	cgg Arg	ctt Leu	ctc Leu	acc Thr 2990	Ser	ttc Phe	8976
acc Thr	agc Ser	cag Gln 2999	Ala	gtg Val	gac Asp	agg Arg	aca Thr 3000	Val	aat Asn	gat Asp	tgg Trp	acg Thr 3005	Ser	tcc Ser	aat Asn	9024 ·
		Ala			tct Ser		Leu					Glu				9072
	Leu				acc Thr 3030	Ser					Met					9120
					gac Asp					Asp					Thr	9168
	_		_	Thr	gtg Val				Lys			_	_	Arg		9216
gtg Val	tct Ser	aag Lys 3075	Leu	gag Glu	aag Lys	ttg Leu	ctg Leu 3080	Lys	cac His	cat His	ctg Leu	cag Gln 3085	Lys	ggc Gly	tgc Cys	9264
agc Ser	cca Pro 3090	Ser	agg Arg	tcg Ser	gaa Glu	agg Arg 3095	Ser	gct Ala	tgg Trp	aag Lys	cca Pro 3100	Asp	gaa Glu	acg Thr	gct Ala	9312
	Gln				agg Arg 3110	Arg					Arg					9360

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Figure 13N

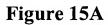
								F	gui	re 1	SIN					
~	_		_	_	His		_		-	Lys	-	-		ttg Leu 313	Tyr	9408
				Arg					Arg					tat Tyr O		9456
			Leu					Gly					Ser	gaa Glu		9504
-		Leu		_		-	His	_		-		Pro		aaa Lys	_	9552
-	Arg					Arg					Phe	_	_	gcc Ala	-	9600
		_		-	Ile		-		-	Phe	-	-	_	aaa Lys 321	Trp	9648
				Arg					Ala					cct Pro		9696
			Arg	_	_	_	_	Gln				_	Thr	aga Arg		9744
		Pro			-	-	Pro					Arg	-	cct Pro	-	9792
	Gly					Ala					His			gga Gly		9840
-					Asn		_		-	Arg		_		gct Ala 3299	Ser	9888
	-		_	His		_			Tyr					gaa Glu)		9936
			Arg					Leu					Ser	aag Lys		9984
tcc Ser	-	His	_	_		aaa Lys 3335	Gln	tga		1001	.1				NO:3)	

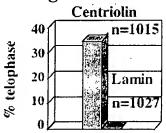
REPLACEMENT FIGURES

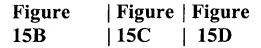
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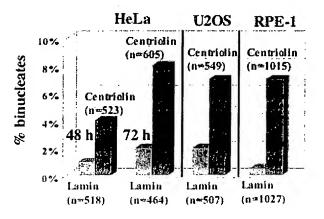
Figure 14

Nud1p/ Cdc11p (35%/50%)	TACC (24%/47%)	Stathmin (40%/51%)	TA((2 0 %)		
127 233 4	i35 62	3 879- 913	1385	1658	2,325
Colled coils 265-	434 8	845 1106	1317		2214









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Figures 15E-N

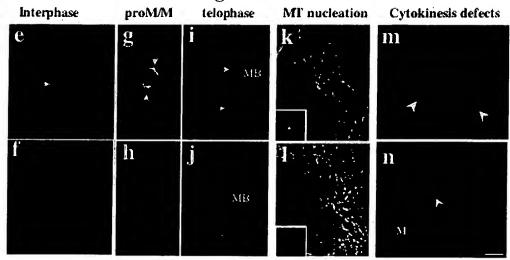


Figure 16A

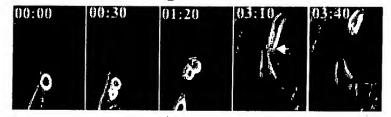
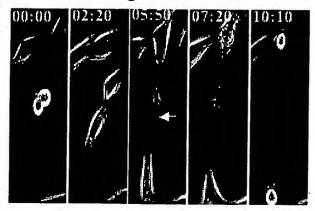
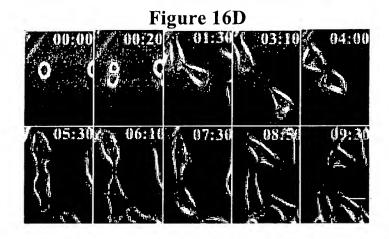
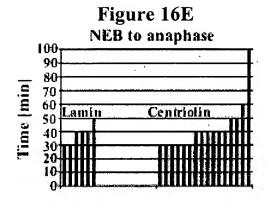


Figure 16B



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Figure 16F

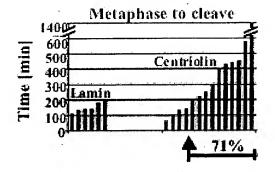
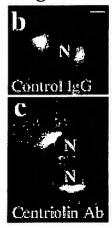


Figure 17



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